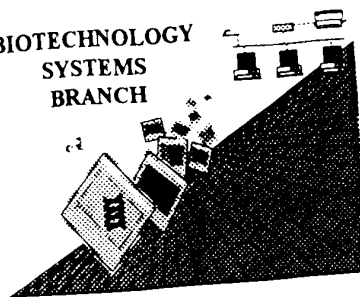


## RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



SV

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/831,047A  
Source: P4/09  
Date Processed by STIC: 9/20/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

# Raw Sequence Listing Error Summary

SERIAL NUMBER: 09/831,047A

## ERROR DETECTED

## SUGGESTED CORRECTION

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 \_\_\_\_\_ Wrapped Nucleics  
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 \_\_\_\_\_ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 \_\_\_\_\_ Misaligned Amino  
Numbering

The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 \_\_\_\_\_ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 \_\_\_\_\_ Variable Length.

Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 \_\_\_\_\_ PatentIn 2.0  
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 \_\_\_\_\_ Skipped Sequences  
(OLD RULES)

Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 \_\_\_\_\_ Skipped Sequences  
(NEW RULES)

Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

9 \_\_\_\_\_ Use of n's or Xaa's  
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 \_\_\_\_\_ Invalid <213>  
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 \_\_\_\_\_ Use of <220>

Sequence(s) \_\_\_\_\_ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 \_\_\_\_\_ PatentIn 2.0  
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 \_\_\_\_\_ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

PCT09

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/831,047A

DATE: 09/20/2001  
TIME: 08:44:21

Input Set : A:\WST93AUSA.txt  
Output Set: N:\CRF3\09202001\I831047A.raw

4 <110> APPLICANT: The Wistar Institute of Anatomy and Biology  
5 The Trustees of the University of Pennsylvania  
6 Blaszczyk-Thurin, Magdalena  
7 Kieber-Emmons, Thomas  
9 <120> TITLE OF INVENTION: Compositions and Methods For Treatment of Cancer  
11 <130> FILE REFERENCE: WST93PCT  
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/831,047A  
C--> 14 <141> CURRENT FILING DATE: 2001-06-30  
16 <150> PRIOR APPLICATION NUMBER: 60/107,478  
17 <151> PRIOR FILING DATE: 1998-11-06  
19 <160> NUMBER OF SEQ ID NOS: 121  
21 <170> SOFTWARE: PatentIn Ver. 2.0  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 12  
25 <212> TYPE: PRT  
26 <213> ORGANISM: Artificial Sequence  
28 <220> FEATURE:  
29 <223> OTHER INFORMATION: Description of Artificial Sequence:  
30 peptido-mimetic of a Lewis antigen  
32 <400> SEQUENCE: 1  
33 Asp Leu Trp Asp Trp Val Val Gly Lys Pro Ala Gly  
34 1 5 10  
37 <210> SEQ ID NO: 2  
38 <211> LENGTH: 12  
39 <212> TYPE: PRT  
40 <213> ORGANISM: Artificial Sequence  
42 <220> FEATURE:  
43 <223> OTHER INFORMATION: Description of Artificial Sequence:  
44 peptido-mimetic of a Lewis antigen  
46 <400> SEQUENCE: 2  
47 Asp Ala Trp Asp Trp Val Val Gly Lys Pro Ala Gly  
48 1 5 10  
51 <210> SEQ ID NO: 3  
52 <211> LENGTH: 12  
53 <212> TYPE: PRT  
54 <213> ORGANISM: Artificial Sequence  
56 <220> FEATURE:  
57 <223> OTHER INFORMATION: Description of Artificial Sequence:  
58 peptido-mimetic of a Lewis antigen  
60 <400> SEQUENCE: 3  
61 Asp Asp Trp Asp Trp Val Val Gly Lys Pro Ala Gly  
62 1 5 10  
65 <210> SEQ ID NO: 4  
66 <211> LENGTH: 12  
67 <212> TYPE: PRT  
68 <213> ORGANISM: Artificial Sequence  
70 <220> FEATURE:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/831,047A

DATE: 09/20/2001

TIME: 08:44:21

Input Set : A:\WST93AUSA.txt

Output Set: N:\CRF3\09202001\I831047A.raw

71 <223> OTHER INFORMATION: Description of Artificial Sequence:

72       peptido-mimetic of a Lewis antigen

74 <400> SEQUENCE: 4

75 Asp Tyr Trp Asp Trp Val Val Gly Lys Pro Ala Gly

76       1                               5                               10

79 <210> SEQ ID NO: 5

80 <211> LENGTH: 12

81 <212> TYPE: PRT

82 <213> ORGANISM: Artificial Sequence

84 <220> FEATURE:

85 <223> OTHER INFORMATION: Description of Artificial Sequence:

86       peptido-mimetic of a Lewis antigen

88 <400> SEQUENCE: 5

89 Asp Glu Trp Asp Trp Val Val Gly Lys Pro Ala Gly

90       1                               5                               10

93 <210> SEQ ID NO: 6

94 <211> LENGTH: 12

95 <212> TYPE: PRT

96 <213> ORGANISM: Artificial Sequence

98 <220> FEATURE:

99 <223> OTHER INFORMATION: Description of Artificial Sequence:

100       peptido-mimetic of a Lewis antigen

102 <400> SEQUENCE: 6

103 Asp Lys Trp Asp Trp Val Val Gly Lys Pro Ala Gly

104       1                               5                               10

107 <210> SEQ ID NO: 7

108 <211> LENGTH: 12

109 <212> TYPE: PRT

110 <213> ORGANISM: Artificial Sequence

112 <220> FEATURE:

113 <223> OTHER INFORMATION: Description of Artificial Sequence:

114       peptido-mimetic of a Lewis antigen

116 <400> SEQUENCE: 7

117 Asp Arg Trp Asp Trp Val Val Gly Lys Pro Ala Gly

118       1                               5                               10

121 <210> SEQ ID NO: 8

122 <211> LENGTH: 12

123 <212> TYPE: PRT

124 <213> ORGANISM: Artificial Sequence

126 <220> FEATURE:

127 <223> OTHER INFORMATION: Description of Artificial Sequence:

128       peptido-mimetic of a Lewis antigen

130 <400> SEQUENCE: 8

131 Asp Ser Trp Asp Trp Val Val Gly Lys Pro Ala Gly

132       1                               5                               10

135 <210> SEQ ID NO: 9

136 <211> LENGTH: 12

137 <212> TYPE: PRT

138 <213> ORGANISM: Artificial Sequence

9/20/01

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/831,047A

DATE: 09/20/2001  
TIME: 08:44:21Input Set : A:\WST93AUSA.txt  
Output Set: N:\CRF3\09202001\I831047A.raw

140 <220> FEATURE:  
141 <223> OTHER INFORMATION: Description of Artificial Sequence:  
142     peptido-mimetic of a Lewis antigen  
144 <400> SEQUENCE: 9  
145 Asp Leu His Asp Trp Val Val Gly Lys Pro Ala Gly  
146     1                     5                     10  
149 <210> SEQ ID NO: 10  
150 <211> LENGTH: 12  
151 <212> TYPE: PRT  
152 <213> ORGANISM: Artificial Sequence  
154 <220> FEATURE:  
155 <223> OTHER INFORMATION: Description of Artificial Sequence:  
156     peptido-mimetic of a Lewis antigen  
158 <400> SEQUENCE: 10  
159 Asp Leu Tyr Asp Trp Val Val Gly Lys Pro Ala Gly  
160     1                     5                     10  
163 <210> SEQ ID NO: 11  
164 <211> LENGTH: 12  
165 <212> TYPE: PRT  
166 <213> ORGANISM: Artificial Sequence  
168 <220> FEATURE:  
169 <223> OTHER INFORMATION: Description of Artificial Sequence:  
170     peptido-mimetic of a Lewis antigen  
172 <400> SEQUENCE: 11  
173 Asp Leu Phe Asp Trp Val Val Gly Lys Pro Ala Gly  
174     1                     5                     10  
177 <210> SEQ ID NO: 12  
178 <211> LENGTH: 12  
179 <212> TYPE: PRT  
180 <213> ORGANISM: Artificial Sequence  
182 <220> FEATURE:  
183 <223> OTHER INFORMATION: Description of Artificial Sequence:  
184     peptido-mimetic of a Lewis antigen  
186 <400> SEQUENCE: 12  
187 Asp Leu Met Asp Trp Val Val Gly Lys Pro Ala Gly  
188     1                     5                     10  
191 <210> SEQ ID NO: 13  
192 <211> LENGTH: 12  
193 <212> TYPE: PRT  
194 <213> ORGANISM: Artificial Sequence  
196 <220> FEATURE:  
197 <223> OTHER INFORMATION: Description of Artificial Sequence:  
198     peptido-mimetic of a Lewis antigen  
200 <400> SEQUENCE: 13  
201 Asp Leu Ala Asp Trp Val Val Gly Lys Pro Ala Gly  
202     1                     5                     10  
205 <210> SEQ ID NO: 14  
206 <211> LENGTH: 12  
207 <212> TYPE: PRT

9/20/01

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/831,047A

DATE: 09/20/2001  
TIME: 08:44:21Input Set : A:\WST93AUSA.txt  
Output Set: N:\CRF3\09202001\I831047A.raw

208 <213> ORGANISM: Artificial Sequence  
210 <220> FEATURE:  
211 <223> OTHER INFORMATION: Description of Artificial Sequence:  
212     peptido-mimetic of a Lewis antigen  
214 <400> SEQUENCE: 14  
215 Asp Leu Glu Asp Trp Val Val Gly Lys Pro Ala Gly  
216     1                     5                     10  
219 <210> SEQ ID NO: 15  
220 <211> LENGTH: 12  
221 <212> TYPE: PRT  
222 <213> ORGANISM: Artificial Sequence  
224 <220> FEATURE:  
225 <223> OTHER INFORMATION: Description of Artificial Sequence:  
226     peptido-mimetic of a Lewis antigen  
228 <400> SEQUENCE: 15  
229 Asp Leu Asp Asp Trp Val Val Gly Lys Pro Ala Gly  
230     1                     5                     10  
233 <210> SEQ ID NO: 16  
234 <211> LENGTH: 12  
235 <212> TYPE: PRT  
236 <213> ORGANISM: Artificial Sequence  
238 <220> FEATURE:  
239 <223> OTHER INFORMATION: Description of Artificial Sequence:  
240     peptido-mimetic of a Lewis antigen  
242 <400> SEQUENCE: 16  
243 Asp Leu Lys Asp Trp Val Val Gly Lys Pro Ala Gly  
244     1                     5                     10  
247 <210> SEQ ID NO: 17  
248 <211> LENGTH: 12  
249 <212> TYPE: PRT  
250 <213> ORGANISM: Artificial Sequence  
252 <220> FEATURE:  
253 <223> OTHER INFORMATION: Description of Artificial Sequence:  
254     peptido-mimetic of a Lewis antigen  
256 <400> SEQUENCE: 17  
257 Asp Leu Arg Asp Trp Val Val Gly Lys Pro Ala Gly  
258     1                     5                     10  
261 <210> SEQ ID NO: 18  
262 <211> LENGTH: 12  
263 <212> TYPE: PRT  
264 <213> ORGANISM: Artificial Sequence  
266 <220> FEATURE:  
267 <223> OTHER INFORMATION: Description of Artificial Sequence:  
268     peptido-mimetic of a Lewis antigen  
270 <400> SEQUENCE: 18  
271 Asp Leu Ser Asp Trp Val Val Gly Lys Pro Ala Gly  
272     1                     5                     10  
275 <210> SEQ ID NO: 19  
276 <211> LENGTH: 12

9/20/01

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/831,047A

DATE: 09/20/2001  
TIME: 08:44:21

Input Set : A:\WST93AUSA.txt

Output Set: N:\CRF3\09202001\I831047A.raw

277 <212> TYPE: PRT  
278 <213> ORGANISM: Artificial Sequence  
280 <220> FEATURE:  
281 <223> OTHER INFORMATION: Description of Artificial Sequence:  
282     peptido-mimetic of a Lewis antigen  
284 <400> SEQUENCE: 19  
285 Asp Leu Trp Glu Trp Val Val Gly Lys Pro Ala Gly  
286     1                     5                     10  
289 <210> SEQ ID NO: 20  
290 <211> LENGTH: 12  
291 <212> TYPE: PRT  
292 <213> ORGANISM: Artificial Sequence  
294 <220> FEATURE:  
295 <223> OTHER INFORMATION: Description of Artificial Sequence:  
296     peptido-mimetic of a Lewis antigen  
298 <400> SEQUENCE: 20  
299 Asp Leu Trp Ser Trp Val Val Gly Lys Pro Ala Gly  
300     1                     5                     10  
303 <210> SEQ ID NO: 21  
304 <211> LENGTH: 12  
305 <212> TYPE: PRT  
306 <213> ORGANISM: Artificial Sequence  
308 <220> FEATURE:  
309 <223> OTHER INFORMATION: Description of Artificial Sequence:  
310     peptido-mimetic of a Lewis antigen  
312 <400> SEQUENCE: 21  
313 Asp Leu Trp Pro Trp Val Val Gly Lys Pro Ala Gly  
314     1                     5                     10  
317 <210> SEQ ID NO: 22  
318 <211> LENGTH: 12  
319 <212> TYPE: PRT  
320 <213> ORGANISM: Artificial Sequence  
322 <220> FEATURE:  
323 <223> OTHER INFORMATION: Description of Artificial Sequence:  
324     peptido-mimetic of a Lewis antigen  
326 <400> SEQUENCE: 22  
327 Asp Leu Trp Val Trp Val Val Gly Lys Pro Ala Gly  
328     1                     5                     10  
331 <210> SEQ ID NO: 23  
332 <211> LENGTH: 12  
333 <212> TYPE: PRT  
334 <213> ORGANISM: Artificial Sequence  
336 <220> FEATURE:  
337 <223> OTHER INFORMATION: Description of Artificial Sequence:  
338     peptido-mimetic of a Lewis antigen  
340 <400> SEQUENCE: 23  
341 Asp Leu Trp Met Trp Val Val Gly Lys Pro Ala Gly  
342     1                     5                     10  
345 <210> SEQ ID NO: 24

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<210> SEQ ID NO 100  
<211> LENGTH: 12  
<212> TYPE: PRT  
<213> ORGANISM: Artificial Sequence  
<220> FEATURE:  
<223> OTHER INFORMATION: Description of Artificial Sequence:  
peptido-mimetic of a Lewis antigen  
<400> SEQUENCE: 100  
Asn Leu Arg Pro Lys Tyr Ile Xaa Leu Asp Ala Asp  
1 5 10

*See item 9 on Encl. Summary Sheet*

*same error in Seqs. 111-112*



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/831,047A

DATE: 09/20/2001

TIME: 08:44:22

Input Set : A:\WST93AUSA.txt

Output Set: N:\CRF3\09202001\I831047A.raw

L:13 M:270 C: Current Application Number differs, Replaced Application Number  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1419 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:100  
L:1419 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:100  
L:1419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100  
L:1573 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:111  
L:1573 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:111  
L:1573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111  
L:1587 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:112  
L:1587 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:112  
L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112

9/20/01